

**SYSTEM FOR SURFACE FINISHING A WORKPIECE****ABSTRACT**

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A system is provided for finishing a surface of a workpiece, for instance by abrading a brazed area or welded area to remove excess brazed or weld material during the refurbishment of the turbine blade. A real-time control system has a controlled material removal rate strategy where a computer controls the different contact or polishing forces

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in real-time to achieve high accuracy.